## C:\Program Files\Stnexp\Queries\2007 cases\10619436\casreact.str

STN Souch meg/19/07

chain nodes:

1 2 3 4 5 6 7 8 15 16 17 18 19 20

ring nodes:

9 10 11 12 13 14

chain bonds:

1-4 2-4 3-4 5-6 7-8 12-15 12-16 15-17 16-18 17-19 18-20

ring bonds:

9-10 9-14 10-11 11-12 12-13 13-14

exact/norm bonds:

1-4 2-4 3-4 5-6 9-10 9-14 10-11 11-12 12-13 13-14 17-19 18-20

exact bonds:

7-8 12-15 12-16 15-17 16-18

## Match level:

1:CLASS2:CLASS3:CLASS4:CLASS5:CLASS6:CLASS7:CLASS8:CLASS9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS16:CLASS17:CLASS18:CLASS19:CLASS20:CLASS

fragments assigned product role:

containing 9

fragments assigned reactant/reagent role:

containing 1

containing 5

containing 7

```
10/619436 Ketals
Uploading C:\Program Files\Stnexp\Queries\2007 cases\10619436\casreact.str
L1 STRUCTURE UPLOADED
=> d l1
L1 HAS NO ANSWERS
             STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
Structure attributes must be viewed using STN Express query preparation.
=> s l1
SAMPLE SEARCH INITIATED 17:14:40 FILE 'CASREACT'
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS
100.0% DONE 0 VERIFIED
                            0 HIT RXNS
                                                             0 DOCS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
            BATCH
                             **COMPLETE**
PROJECTED VERIFICATIONS:
                             0 TO 0
                             0 TO .
PROJECTED ANSWERS:
            0 SEA SSS SAM L1 ( 0 REACTIONS)
```

=> s l1 sss full

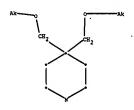
FULL SEARCH INITIATED 17:14:57 FILE 'CASREACT' SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM

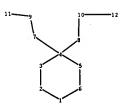
100.0% DONE O VERIFIED O HIT RXNS 0 DOCS

0 DOCUMENTS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1 ( 0 REACTIONS) C:\Program Files\Stnexp\Queries\2007 cases\10619436\triacetonamine ketal.str





chain nodes:

7 8 9 10 11 12

ring nodes:

1 2 3 4 5 6

chain bonds:

4-7 4-8 7-9 8-10 9-11 10-12

ring bonds:

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds:

1-2 1-6 2-3 3-4 4-5 5-6 9-11 10-12

exact bonds:

4-7 4-8 7-9 8-10

## Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS8:CLASS9:CLASS10:CLASS11:CLASS 12:CLASS

Uploading C:\Program Files\Stnexp\Queries\2007 cases\10619436\triacetonamine ketal.str

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 17:19:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 52 TO ITERATE

100.0% PROCESSED 52 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

608 TO 1472

PROJECTED ANSWERS:

0 TO

0 SEA SSS SAM L5

=> s 15 sss full

FULL SEARCH INITIATED 17:19:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 971 TO ITERATE

100.0% PROCESSED 971 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

0 SEA SSS FUL L5 L7

### => d his

```
(FILE 'HOME' ENTERED AT 17:13:26 ON 19 SEP 2007)
    FILE 'CASREACT' ENTERED AT 17:14:03 ON 19 SEP 2007
L1
               STRUCTURE UPLOADED
L2
              0 S L1
L3
              0 S L1 SSS FULL
     FILE 'STNGUIDE' ENTERED AT 17:15:51 ON 19 SEP 2007
     FILE 'REGISTRY' ENTERED AT 17:17:18 ON 19 SEP 2007
                STRUCTURE UPLOADED
     FILE 'STNGUIDE' ENTERED AT 17:18:26 ON 19 SEP 2007
     FILE 'REGISTRY' ENTERED AT 17:18:46 ON 19 SEP 2007
                STRUCTURE UPLOADED
L6
              0 S L5 ·
L7
              0 S L5 SSS FULL
     FILE 'CAPLUS' ENTERED AT 17:20:09 ON 19 SEP 2007
L8
     2 S "TRIACETONAMINE KETAL"
     FILE 'STNGUIDE' ENTERED AT 17:21:15 ON 19 SEP 2007
L9
             0 S "HYDROCHLORIC ACID" (20S) CATALYST
L10
              0 S "HYDROGEN CHLORIDE" (20S) CATALYST
L11
             0 S "HYDROCHLORIC ACID." (P) CATALYST
             0 S "HYDROGEN CHLORIDE" (P) CATALYST
L12
             0 S "HYDROGEN CHLORIDE" (P) "TRIACETONAMINE"
L13
             0 S "HYDROGEN CHLORIDE" (P) GAS
L14
                                          OR "GASEOUS HYDROGEN CHLORIDE"
              0 S "HYDROGEN CHLORIDE GAS"
L15
     FILE 'HCAPLUS' ENTERED AT 17:30:35 ON 19 SEP 2007
          1091 S "HYDROGEN CHLORIDE GAS" OR "GASEOUS HYDROGEN CHLORIDE"
L16
              0 S L16 (P) TRIACETONAMINE
L17
L18
              1 S "HYDROGEN CHLORIDE" (P) "TRIACETONAMINE"
```

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSPTAMLL1621

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* Welcome to STN International

USGENE now available on STN
CAS REGISTRY enhanced with new experimental property tags
BELISTEIN updated with new compounds
FSTA enhanced with new thesaurus edition
CA/CAplus enhanced with additional kind codes for granted /CAplus enhanced with utility model patents from China plus enhanced with French and German abstracts /CAplus patent coverage enhanced PATFULL/USPAT2 enhanced with IPC reclassification for STN Seminar Schedule - N. America SEARCH enhanced with complete author names EMCATS accession numbers revised JUL 02 JUL 16 JUL 26 JUL 26 JUL 30 AUG 06 AUG 06 AUG 06 NEWS 12 NEWS 13 NEWS NEWS NEWS NEWS NEWS

CA/OAplus enhanced with CAS indexing in pre-1907 records Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB STN AnaVist, Version 2,0, now available with Derwent CAS REGISTRY enhanced with additional experimental World Patents Index FORIS renamed to SOFIS INPADOCDB enhanced with monthly SDI frequency USPATOLD now available on STN spectral property data SEP 13 SEP 13 SEP 17 AUG 20 AUG 27 AUG 27 AUG 28 SEP 07 NEWS 19 NEWS 20 NEWS 21 NEWS 14 NEWS 15 NEWS 16 NEWS 17 NEWS 18

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1967-1998

11

SEP

NEWS 22

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Page 1 searched 9/19/07

10/619436 Ketals

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Columbus \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* 

FILE 'HOME' ENTERED AT 17:13:26 ON 19 SEP 2007

=> file casreact
COST IN U.S. DOLLARS

FULL ESTIMATED COST

TOTAL SESSION 0.21 ENTRY 0.21 SINCE FILE

FILE 'CASREACT' ENTERED AT 17:14:03 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE CONTENT:1840 - 15 Sep 2007 VOL 147 ISS

New CAS Information Use Policies, enter HELP USAGETERMS for details.

CASREACT now has more than 12 million reactions

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance

=> Uploading C:\Program Files\Stnexp\Queries\2007cases\10619436\casreact.str

identification

STRUCTURE UPLOADED

L1 HAS NO ANSWERS

L1 \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

=> \$11 SAMPLE SEARCH INITIATED 17:14:40 FILE 'CASREACT' SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM

O HIT RXNS 100.0% DONE 0 VERIFIED SEARCH TIME: 00.00.01

o pocs 0 DOCUMENTS

Page 2 searched 9/19/07

0 DOCS 0 DOCUMENTS TOTAL SESSION 114.66 SINCE FILE ENTRY 114.45 FULL SEARCH INITIATED 17:14:57 FILE 'CASREACT'

FULL SEARCH INITIATED 17:14:57 FILE 'CASREACT'

ON THE PROPERTY OF THE PROPERTY OF THE PROPERTY FROM THE PROPERTY FROM THE PROPERTY OF THE PRO FILE 'STNGUIDE' ENTERED AT 17:15:51 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS) 0 REACTIONS) 0 REACTIONS) 0 HIT RXNS \*\*COMPLETE\*\* \*\*COMPLETE\* 0 0 0 0 O SEA SSS SAM L1 ( O SEA SSS FUL L1 ( ONLINE BATCH O VERIFIED PROJECTED VERIFICATIONS: PROJECTED ANSWERS: FULL FILE PROJECTIONS: 100.0% DONE 0 VE SEARCH TIME: 00.00.01 => file stng
COST IN U.S. DOLLARS FULL ESTIMATED COST Ľ

FILE CONTAINS CURRENT INFORMATION. . LAST RELOADED: Sep 14, 2007 (20070914/UP)

TOTAL SESSION 114.78 ENTRY 0.12 SINCE FILE => file reg COST IN U.S. DOLLARS FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:17:18 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STR CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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HIGHEST RN 947490-11-1 HIGHEST RN 947490-11-1 18 SEP 2007 18 SEP 2007 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: New CAS Information Use Policies, enter HELP USAGETERMS for details.

ISCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property sarching in REGISTRY, refer to: REGISTRY includes numerically searchable data for experimental and

http://www.cas.org/support/stngen/stndoc/properties.html

Page 3 searched 9/19/07

10/619436 Ketals

=> Uploading C:\Program Files\Stnexp\Queries\2007cases\10619436\triacetonamine ketal.str

## STRUCTURE UPLOADED <u>L</u>4

L4 HAS NO ANSWERS => d 14

L4 \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.

c> file stng
cost IN U.S. DOLLARS

SINCE FILE ENTRY 0.90 FULL ESTIMATED COST

TOTAL SESSION 115.68

FILE 'STNGUIDE' ENTERED AT 17:18:26 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Sep 14, 2007 (20070914/UP)

\*\*)
Puloading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?

Choice (Y/n):
Switching.to the Registry File...
Switching.to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

## => FILE REGISTRY

. TOTAL SESSION 115.74 SINCE FILE ENTRY 0.06 COST IN U.S. DOLLARS FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:18:46 ON 19 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STRY CUSTOWER AGREEMENT.
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18 SEP.2007 HIGHEST RN 947490-11-1 18 SEP 2007 HIGHEST RN 947490-11-1 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: New CAS Information Use Policies, enter HELP USACETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Page 4 searched 9/19/07

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as lags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> Uploading C:\Program Files\Stnexp\Queries\2007cases\10619436\triacetonamine Ketal.str

STRUCTURE UPLOADED

5

=> d 15 LS HAS NO ANSWERS LS crr

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Scructure attributes must be viewed using STN Express query preparation.

52 TO ITERATE => s 15 SAMPLE SEARCH INITIATED 17:19:15 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 52 TO ITER

52 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS:

1472 \*\*COMPLETE\*\* 608 TO 0 TO ONLINE BATCH PROJECTED ITERATIONS: , PROJECTED ANSWERS:

O SEA SSS SAM L5 16

=> \$15 \$9\$ full FULL SEARCH INITIATED 17:19:21 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 971 TO ITERATE

971 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

0 ANSWERS

O SEA SSS FUL LS

17

TOTAL SESSION SINCE FILE ENTRY 172.55 => file caplus COST IN U.S. DOLLARS FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 17:20:09 ON 19 SEP 2007
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Page 5 searched 9/19/07

## 10/619436 Ketals

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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"TRIACETONAMINE" OR "TRIACETONAMINES") ("KETAL" OR "KETALS")
2 "TRIACETONAMINE KETAL"
("TRIACETONAMINE"(W)"KETAL") 260 "TRIACETONAMINE" 2 "TRIACETONAMINES" 261 "TRIACETONAMINE" => s "triacetonamine ketal' 10060 "KETAL" 4318 "KETALS" 12133 "KETAL" 28

-> d 18 1-2 ibib abs

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
SSTON NUMBER:
1985.5604945
GENERAL NUMBER:
Triacetonamine sugar alcohol ketals
Adeka Argus Chemical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF Japanese Patent FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT ASSIGNEE(S): ACCESSION NUMBER: DOCUMENT NUMBER: DOCUMENT TYPE: SOURCE:

19830823 19830823 DATE JP 1983-153437 JP 1983-153437 APPLICATION NO. 19850312 DATE KIND A. PRIORITY APPLN. INFO.: JP 60045583 PATENT NO.

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10/619436 Ketals



Press-molded sheets prepared from Light-degradable organic materials can be stabilized by title compds. I (R H, alkyl, alkanoyl, Z = sugar alc. moiety; n = 1, 2). Thus, refluxing 20.0 g xylitol and 33.0 g triacetonamine.H2SO4 gave a monoketal (1; R = H, Z = xylitol residue, n = 1) (11). Press-molded sheets prepared fr polypropylene 100, stearyl  $\mu$ -(3,5-di-tert-butyl-4-hydroxyphenyl) propionate 0.2, and II 0.3 parts had Hg lamp stability 640 h, vs. 150 h using 8-aza-7,7,9,9-tetramethyl-1,4-dioxaspiro{4.5}decane. AB

friacetonamine ketal stabilizers JS COPYRIGHT 2007 ACS on STN 1974:27899 CAPLUS 80:27899 CAPLUS ANSWER 2 OF 2 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: F8

Murayama, Keisuke; Toda, Toshimasa; Mori, Eiko; Matsui, Katsuaki; Kurumada, Tomoyuki; Ohta, Noriyuki; INVENTOR (S):

Watanabe, Ichiro Sankyo Co., Ltd. Ger. Offen., 20 pp. CODEN: GWXXBX PATENT ASSIGNEE(S):

SOURCE:

German FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE

19720121 A 19720121 DATE DE 1972-2203533 DE 1972-2203533 APPLICATION NO. 19730816 DATE KIND - FA PRIORITY APPLN. INFO.: AB The ketals I (R = DE 2203533 PATENT NO.

phenylenedioxy)piperidine(II) [36793-29-0]. Samples from 100 parts IV and 0.25 part II turned brittle (on heating at 45.deg. under uv irradiation) after 1000 hr vs. 100 hr for IV containing no II. The ketals I [R = R1 = Bu or n-C8H17, RR1 = 0-phenylene (II) or CH2CH2) were prepared by ketalization of triacetonamine (III) and used as heat and light stabilizers in polymers, e.g. polypropylene (IV) [9003-07-0], nylon 6 [25038-54-44], or polyurethanes. Thus, refluxing III and o. (H0)2C6H4 in C6H6 containing p-MeC6H4S03H gave 2,2,6,6-tetramethyl-4,4-(o-

SESSION -1.56 TOTAL 298.91 SINCE FILE ENTRY -1.56 SINCE FILE ENTRY 10.62 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) => fil stng COST IN U.S. DOLLARS FULL ESTIMATED COST CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 17:21:15 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

Page 7 searched 9/19/07

FILE 'CASREACT' ENTERED AT 17:14:03 ON 19 SEP 2007 STRUCTURE UPLOADED 'REGISTRY' ENTERED AT 17:18:46 ON 19 SEP 2007 STRUCTURE UPLOADED FILE 'STNGUIDE' ENTERED AT 17:21:15 ON 19 SEP 2007 FILE 'STNGUIDE' ENTERED AT 17:15:51 ON 19 SEP 2007 SEP 2007 FILE 'CAPLUS' ENTERED AT 17:20:09 ON 19 SEP 2007 2 S "TRIACETONAMINE KETAL" (FILE 'HOME' ENTERED AT 17:13:26 ON 19 SEP 2007) (CATALYST OR CATALYSTS)
0 "HYDROCHLORIC ACID" (20S) CATALYST (CATALYST OR CATALYSTS)
0 "HYDROGEN CHLORIDE" (20S) CATALYST FILE 'REGISTRY' ENTERED AT 17:17:18 ON 19 STRUCTURE UPLOADED FILE 'STNGUIDE' ENTERED AT 17:18:26 ON 19 ("HYDROCHLORIC" (W) "ACID")
7 CATALYST "HYDROGEN" (W) "CHLORIDE" FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Sep 14, 2007 (20070914/UP) \* s "hydrogen chloride" (20s) catalyst ("ACID" OR "ACIDS") 0 "HYDROGEN CHLORIDE" 0 "HYDROCHLORIC ACID' 0 S L1 0 S L1 SSS FULL 0 S L5 0 S L5 SSS FULL 6 CATALYSTS 8 CATALYST "CHLORIDE" "HYDROGEN CATALYSTS 8 CATALYST CATALYST "ACIDS" FILE => d his 110 12 E 7 L5 L6 L7 <u>1</u>28 5

searched 9/19/07 Page 8

```
or "gaseous hydrogen chloride"
                                                                                                                                                                                                                                                                                                                                                                                                                             0 "HYDROGEN CHLORIDE")
("HYDROGEN (W)"CHLORIDE")
0 "TRIACETONAMINE"
0 "HYDROGEN CHLORIDE" (P) "TRIACETONAMINE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "HYDROGEN CHLORIDE GAS"
("HYDROGEN" (W) "CHLORIDE" (W) "GAS")
                                                                                                                                               (CATALYST OR CATALYSTS)
0 "HYDROCHLORIC ACID" (P) CATALYST
                                                                                                                                                                                                                                                                                                                                 (CATALYST OR CATALYSTS)

0 "HYDROGEN CHLORIDE" (P) CATALYST
                                                                                                                                                                                                                                                                                                                                                                                    => s "hydrogen chloride" (p) "triacetonamine"
                                                                                "HYDROCHLORIC" (W) "ACID")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 "HYDROGEN CHLORIDE"
("HYDROGEN" (W) "CHLORIDE")
                                                                                                                                                                                                                                             0 "HYDROGEN CHLORIDE"
("HYDROGEN" (W) "CHLORIDE")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "GASEOUS HYDROGEN CHLORIDE"
                                                                                                                                                                                                   => s "hydrogen chloride" (p) catalyst
                                              ("ACID" OR "ACIDS")
0 "HYDROCHLORIC ACID"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GAS OR GASES)
0 "HYDROGEN CHLORIDE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ("GAS" OR "GASES")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (b) gas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  => s "hydrogen chloride gas"
4 "HYDROGEN"
                                                                                                                                                                                                                                                                                 7 CATALYST
6 CATALYSTS
8 CATALYST
                                                                                                                                                                                                                  "HYDROGEN"
                                                                                                                                                                                                                                                                                                                                                                                                  "HYDROGEN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "CHLORIDE"
                                                                                                               6 CATALYSTS
8 CATALYST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 => s "hydrogen chloride"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "HYDROGEN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "CHLORIDE"
                                                                                                                                                                                                                              0 "CHLORIDE
                                                                                                 7 CATALYST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "GASES"
"ACID"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 GASES
10 GAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 GAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2
                                                                                                                                                                                                                                                                                                                                                 L12
                                                                                                                                                                 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L14
```

Page 9 searched 9/19/07

("GASEOUS" (W) "HYDROGEN" (W) "CHLORIDE")
"HYDROGEN CHLORIDE GAS" OR "GASEOUS HYDROGEN CHLORIDE"

115

10/619436 Ketals

10/619436 Ketals

=> d his

OR "GASEOUS HYDROGEN CHLORIDE" TOTAL SESSION -1.56 TOTAL SESSION 299.87 0.00 SINCE FILE ENTRY (P) CATALYST
(P) CATALYST
(P) "TRIACETONAMINE" 96.0 SINCE FILE ENTRY FILE 'CASREACT' EWTERED AT 17:14:03 ON 19 SEP 2007 STRUCTURE UPLOADED 0 S L1 SSS FULL 0 S L1 SSS FULL 'REGISTRY' ENTERED AT 17:17:18 ON 19 SEP 2007 STRUCTURE UPLOADED REGISTRY' ENTERED AT 17:18:46 ON 19 SEP 2007 STRUCTURE UPLOADED 0 S LS CS FULL 0 S LS SSS FULL FILE 'STNGUIDE' ENTERED AT 17:21:15 ON 19 SEP 2007 0 S "HYDROCHLORIC ACID" (20S) CATALYST 0 S "HYDROGEN CHLORIDE" (20S) CATALYST FILE 'STNGUIDE' ENTERED AT 17:15:51 ON 19 SEP 2007 FILE 'STNGUIDE' ENTERED AT 17:18:26 ON 19 SEP 2007 FILE 'CAPLUS' ENTERED AT 17:20:09 ON 19 SEP 2007 2 S "TRIACETONAMINE KETAL" (FILE 'HOME' ENTERED AT 17:13:26 ON 19 SEP 2007) (P) GAS 0 S "HYDROCHLORIC ACID" (208 0 S "HYDROCABN CHLORIDE" (208 0 S "HYDROCALLORIDE" (P) 0 S "HYDROCEN CHLORIDE" (P) DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) => file hcapl COST IN U.S. DOLLARS FULL ESTIMATED COST CA SUBSCRIBER PRICE FILE FILE F8 CCC 7 L6 L7 67

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0.0
FILE 'HCAPLUS' ENTERED AT 17:30:35 ON 19 SEP 2007
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Page 10 searched 9/19/07

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10/619436 Ketals
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OR "GASEOUS HYDROGEN CHLORIDE"
                                                                      New CAS Information Use Policies, enter HELP USAGETERMS for details
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Li6 IS NOT A RECONTIZED COMMAND
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For a list of commands awailable to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
                                                                                                                   This file contains CAS Registry Numbers for easy and accurate
                                                                                                                                                                                         or "gaseous hydrogen chloride'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ("GASEOUS" (W) "HYDROGEN" (W) "CHLORIDE")
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "HYDROGEN" (W) "CHLORIDE" (W) "GAS")
     VOL 147 ISS 13 (20070918/ED)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "triacetonamine"
                                                                                                                                                                                                                                                                                    "HYDROGEN" OR "HYDROGENS")
                                                                                                                                                                                                                                                                                                                                                                              ("CHLORIDE" OR "CHLORIDES")
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407 "GASEOUS HYDROGEN CHLORIDE"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1091 "HYDROGEN CHLORIDE GAS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ("GAS" OR "GASES")
716 "HYDROGEN CHLORIDE GAS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 L16 (P) TRIACETONAMINE
FILE COVERS 1907 - 19 Sep 2007
FILE LAST UPDATED: 18 Sep 2007
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2 TRIACETONAMINES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   261 TRIACETONAMINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "hydrogen chloride" (p)
1015422 "HYDROGEN"
                                                                                                                                                                                    => s "hydrogen chloride gas"
1015422 "HYDROGEN"
6041 "HYDROGENS"
                                                                                                                                                                                                                                                                                                   1161611 "CHLORIDE"
159679 "CHLORIDES"
1235117 "CHLORIDE"
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                                                                                                                                          substance identification.
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159679 "CHLORIDES"
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1015422 "HYDROGEN"
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L17
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Page 11 searched 9/19/07

10/619436 Ketals

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chloride, zinc dust, and a little watter, it is converted into date, and a little watter, it is converted into date, and a little watter, it is converted into date 2:2:6-trimethylpiperidine,which forms a crystalline mass, melts at 22-26, and boils at 60° (pressure 7.5 mm.). The base has a faint odour of piperidine, and rapidly combines with the carbonic anhydride of the air, forming a carbamate. The hydrodide of the base crystallises in fascicular groups of white prisms, and is moderately soluble in water; the hydrochloride is readily soluble in water; the base forms both a normal and a acid oxalate, the latter being very hygroscopic. 4-Acetamido-2::6-trimethylpiperidine crystallises in cubes, melting at 206-2070; it is strongly basic, and forms an aurochloride, melting at 235° with decomposition. The diacetyl compound, (the original abstract includes an equation), is formed when the base is heated with excess of acetic anhydride at 160°; it forms small prisms, melts at 88-89°, boils at 160-170° mother basic compound is accompanied by another basic aurochloride. This diacetyl compound is accompanied by another basic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        when heated with chloroform and alcoholic potash, no carbylamine derivative is produced. The base reacts with carbon bisulphide, forming a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           substance, which boils at about 200° (pressure = 8 mm.), and is probably an anhydro-derivative. The base does not yield a diazo-compound with sodium nitrite and an acid, whilst with amylic nitrite it yields a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Harries, Carl D.
Berichte der Deutschen Chemischen Gesellschaft (1896)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Triacetonaminoxime, C9H18N2O, is obtained by the action of hydroxylamine on triacetonamine, and cryetallises in large, white, six-sided prisms, melting at 152-153°, it forms cryetalline salts with hydrochloric and sulphuric acids. Benzylidenediacetonaminoxime,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          taken part in the reaction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   thiocarbamate, C9H18N2S2, which crystallises from water in prisms and melts at 187-188°. When this salt is treated with mercuric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ci3H18N2O, crystallises in lustrous, four-sided tablets, melting at 140-141°, and is only sparingly soluble in boiling water. Vinyldiacetonaminoxime, (the original abstract includes an equation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chem. Soc., Abstr. 70, I, 317-8 1896
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The latter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   crystallises in translucent, four-sided tablets, melting at
150-151°. When reduced with alcoholic hydrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The oximes of the cyclic acetone bases:
paramidotrimethylpiperidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   melts at 187-188°. When this salt is treated with me
chloride, it yields the hydrochloride of a new base.
                                                                                                                                                                                                     "TRIACETONAMINE" OR "TRIACETONAMINES")
                                                                                                                                                                                                                                            (P) "TRIACETONAMINE
                                                                                                                                                                                                                                                                                                                                                                                                      HCAPLUS COPYRIGHT 2007 ACS on STN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nitroso-derivative, the imido-group having
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                                       (W) "CHLORIDE")
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33237 "HYDROGEN CHLORIDE"
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                                                                      260 "TRIACETONAMINE"
2 "TRIACETONAMINES"
261 "TRIACETONAMINE"
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AB Tria
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Page 12 searched 9/19/07

crystallises in small prisms and melts at 79-80°. It has not the smell or other properties of a thiocarbimide, and probably has the constitution (the original abstract includes an equation).

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(FILE 'HOME' ENTERED AT 17:13:26 ON 19 SEP 2007)

FILE 'CASREACT' ENTERED AT 17:14:03 ON 19 SEP 2007 STRUCTURE UPLOADED 0 S L1 SSS FULL 0 S L1 SSS FULL EEE

FILE 'STNGUIDE' ENTERED AT 17:15:51 ON 19 SEP 2007

FILE 'REGISTRY' ENTERED AT 17:17:18 ON 19 SEP 2007 STRUCTURE UPLOADED

7.

FILE 'STNGUIDE' ENTERED AT 17:18:26 ON 19 SEP 2007

FILE 'REGISTRY' ENTERED AT 17:18:46 ON 19 SEP 2007 STRUCTURE UPLOADED
0 S LS
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L65

FILE 'CAPLUS' ENTERED AT 17:20:09 ON 19 SEP 2007 2 S "TRIACETONAMINE KETAL" <u>F</u>8

PILE 'STNGUIDE' ENTERED AT 17:21:15 ON 19 SEP 2007 '
0 S "HYDROCHLORIC ACID" (20S) CATALYST
0 S "HYDROCEN CHLORIDE" (20S) CATALYST
0 S "HYDROCEN CHLORIDE" (P) CATALYST
0 S "HYDROCEN CHLORIDE" (P) CATALYST
0 S "HYDROCEN CHLORIDE" (P) "TRIACETONAMINE"
0 S "HYDROCEN CHLORIDE" (P) "GAS
0 S "HYDROCEN CHLORIDE" (P) GAS
0 S "HYDROCEN CHLORIDE GAS" OR "GASEOUS HYDROCEN CHLORIDE" L9 L10 L11 L12 L13 L14 L15

OR "GASEOUS HYDROGEN CHLORIDE" PILE 'HCAPLUS' ENTERED AT 17:30:35 ON 19 SEP 2007
1091 S "HYDROCOEN CHUORIDE GAS" OR "GASEOUS HYDR
0 S LIG (P) TRIACETONAMINE
1 S "HYDROGEN CHLORIDE" (P) "TRIACETONAMINE" L16 L17 L18

SINCE FILE ENTRY 15.83 => fil stng
COST IN U.S. DOLLARS FULL ESTIMATED COST

TOTAL SESSION 315.70

TOTAL SESSION -2.34 SINCE FILE ENTRY -0.78 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 17:33:44 ON 19 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Sep 14, 2007 (20070914/UP).

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Page 14 searched 9/19/07

# **EAST Search History**

Time Stamp	81:91 61/60/2002	2007/09/19 16:18	2007/09/19 16:18	2007/09/19 16:19	2007/09/19 16:19	2007/09/19 16:37	2007/09/19 16:23	2007/09/19.16:23	2007/09/19 16:23	2007/09/19 16:34	2007/09/19 16:36	2007/09/19 16:36	2007/09/19 16:36	2007/09/19 16:36
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Search Query	.564/502°CCLS	"544/406".CCL.S.	L1 same20:L2	triacetonamine	ketals same L4	Tlacetonamine	("3959298").URPN:	("4734502").URPN.	("4831146");URPN	triacetonami\$3 near3 ketal	((hydrogen chloride) or (hydrochlor\$4 near3 acid)) near3 (gas or air or vapor)	111 same20 H	111 same20 H	111 near20 H .
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9/19/2007 5:05:35 PM C:\Documents and Settings\mlao\My Documents\EAST\Workspaces\10619436Ketals -triacetoamline- updated.wsp

# **EAST Search History**

2007/09/19 16:40	2007/09/19 16:39	2007/09/19 16:39	2007/09/19 16:39	2007/09/19 16:40	2007/09/19 16:48	2007/09/19 16:49	2007/09/19 16:57	2007/09/19 16:53	2007/09/19 16:57	2006/12/05 20:29	2007/09/19 16:18	2006/12/05 18:00
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triacetonamine, dm. and ketal.dm.	tracetonomine.chr. and tetal.chm.	III and ketal.clm	LI7 and 16	triacetonamine.clm. or ketal.clm.	111 and 119	ketal\$10 near10 (triacetonamine or piperidone)	(ketal\$10) near10 (triacetonamine or piperidone)	(ketal\$10) near10 piperidone	(ketal\$10) near10 triacetonamine	(("3963730") or ("4250312") or ("3940401")).PN.	∵84/507° CCLS	"544/406".CQ.S.
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# **EAST Search History**

2006/12/05 18:00	2006/12/05 18:00	2006/12/05 18:02	2006/12/05 18:02	2006/12/05 18:02	2006/12/05 18:03	2006/12/05 18:23	2006/12/05 18:28	2006/12/05 20:28	2006/12/05 20:55	2006/12/05 20:30	2006/12/05 20:49	2006/12/05 20:38	2006/12/05 20:39	2006/12/05 20:40	2006/12/05 20:45
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9/19/2007 5:05:35 PM C:\Documents and Settings\mlao\My Documents\EAST\Workspaces\10619436Ketals -triacetoamine- updated.wsp

# **EAST Search History**

2006/12/05 20:45	2006/12/05 20:46	2006/12/05 20:50	2006/12/05 20:50	2006/12/05 20:55	2006/12/05 20:57	2006/12/05 21:10	2006/12/05 20:58	2006/12/05 20:58	2006/12/05 21:11	2006/12/05 21:12	2006/12/05 21:12
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glycerol near5 ketone	Ω1 same catalys\$	S16 same ketone	S16 near3 ketone	hydrogen adj chloride	513 and 518 and 525	S13 and S18	518 and 525	S27 and S28	hydrocarbon adj salvš	alkaliş adj metal adj alkoxiş	akaits adj earth adj metal adj akoxt\$
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533	0	S13 same S30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	NO	2006/12/05 21:21
834	0	0 S13 mear S30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	No.	2006/12/05 21:21
335	98	· 518 same 530	US-PGPUB; USPAT; EPO; JPO; DERWENT	<b>8</b>	NO	2006/12/05 21:22
536	1	4E (73621007).URPN 1 JP-48055938-\$.did.	USPAT US-PGPUB; USPAT; EPO; JPO; DERWENT	O.R.	NO NO	2005/12/05/21:43 2007/01/30 12:11
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